

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-021416**Date Inspected:** 05-Jan-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Geng Wei**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector Larry Viars was present during the times noted above for observations relative to the work being performed.

Bay 14-

This QA Inspector observed the following work in progress: Shielded Metal Arc Welding (SMAW) of OBG Segment 14E longitudinal diaphragm to bottom panel weld, SEG3019Y-053. ZPMC welder was identified as 043661. ZPMC QC was identified as Wang Lu. ZPMC CWI was identified as Geng Wei. The welding appeared to be in conformance with welding procedure specification, WPS-345-SMAW-2G(2F)-FCM-Repair.

Flux Cored Arc Welding (FCAW) of OBG Segment 14E hinge plate to bottom panel weld, SEG3019L-1-001. ZPMC welder was identified as 068501. ZPMC QC was identified as Zhong Guo Hui. ZPMC CWI was identified as Geng Wei. The welding appeared to be in conformance with welding procedure specification, WPS-B-T-2233-ESA.

Caltrans QA observed ZPMC Ultrasonic Testing (UT) personnel performing UT of vertical shear plates to Bottom panel welds located on OBG Segment 14E.

Flux Cored Arc Welding (FCAW) of OBG segment 14E bottom panel stiffener to floor beam weld, SEG3019N-226. ZPMC welder was identified as 044824. ZPMC QC was identified as Wang Xu. ZPMC CWI was identified as Geng Wei. The welding appeared to be in conformance with welding procedure specification, WPS-B-T-2132-ESAB.

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## WELDING INSPECTION REPORT

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Shielded Metal Arc Welding (SMAW) of OBG Segment 14E floor beam stiffener to longitudinal diaphragm to weld, SEG3019L-1-321. ZPMC welder was identified as 067665. ZPMC QC was identified as Wang Xu. ZPMC CWI was identified as Geng Wei. The welding appeared to be in conformance with welding procedure specification, WPS-B-P-2214-TC-U4b-FCM-1.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

Only general conversation between QA and QC occurred this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, 150 0042 2372, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Viars,Larry	Quality Assurance Inspector
<b>Reviewed By:</b>	McClendon,Timothy	QA Reviewer

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